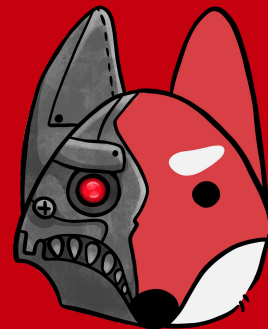


Elasticsearch for dummies

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WTF



~~database~~



RESTful search and analytics engine



APIs

- Index API
- Bulk API
- Get API
- Reindex API
- Delete API
- Multi termvectors
- Delete by query API API
- Update API
- ...

~~rows~~

documents

Parts

- cluster
- node
- index
- mapping
- shard
- segment
- document
- field
- subfield

denormalize everything

~~realtime~~

NRT

Data loss

- index-time (queues)
- failed shard
- duplicity

index allocation

Mapping

- text, keyword
- long, integer, short, byte, double, float, half_float, scaled_float
- date
- boolean

Mapping

- binary
- integer_range, float_range,...
- object, array, nested
- geo_point, geo_shape
- ...

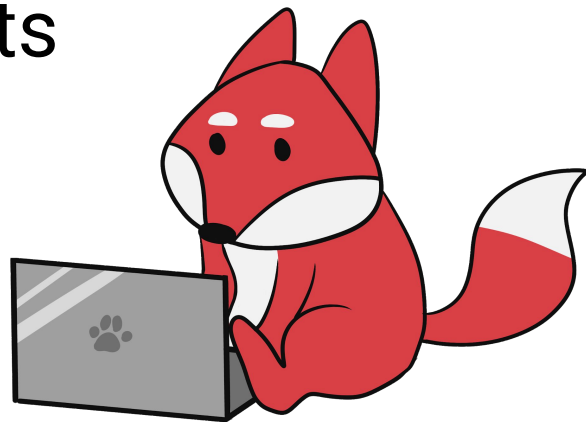
Mapping update

- multi-index
- reindex
- update



Search API

- query/filter
- match
- bool
- term
- range
- exists
- ids



Aggregations

- metrics (sum, max, min, stats,...)
- buckets (terms, histogram, range,...)
- pipeline (max bucket, stats bucket,...)

Aggregations

- nesting
- partitioning

Update API

- update vs index API
- painless
- stored scripts



Bulk API

- multi-index
- multi-operation
- MUST-HAVE!

document versioning

scrolling



routing

scalability

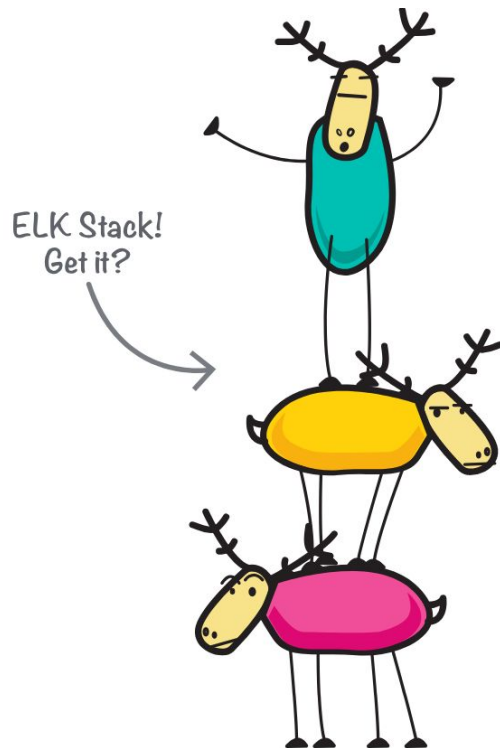
authorization

backups

GUIs

- Kibana
- Cerebro

ELK stack

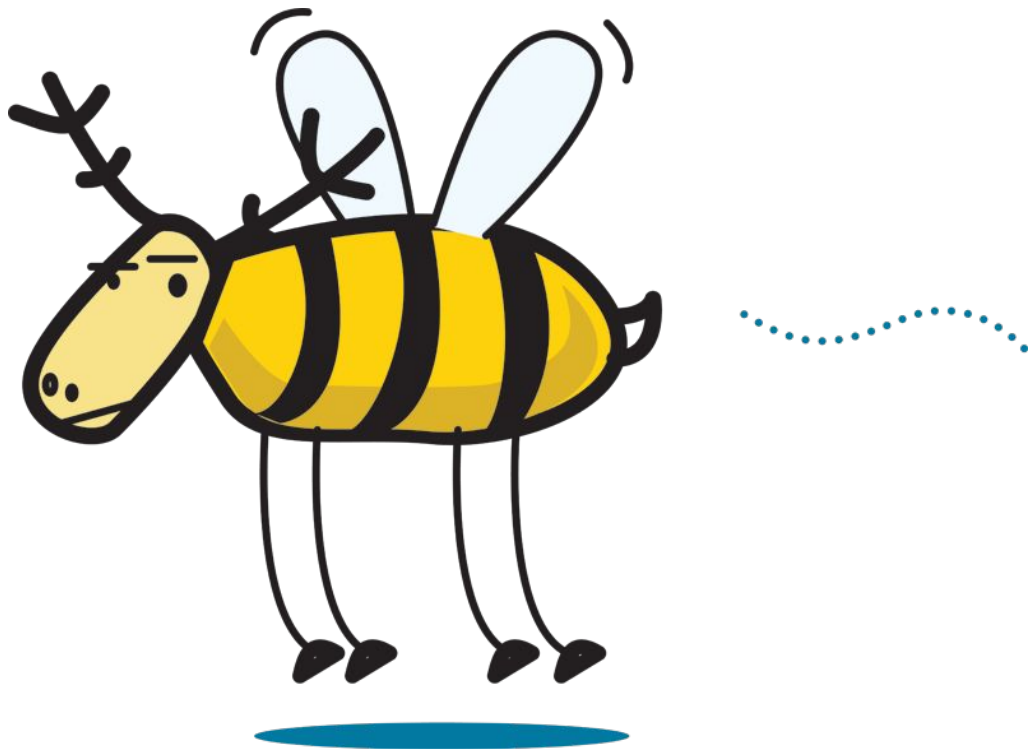


E Elasticsearch

L Logstash

K Kibana

ELKB (Elastic) stack





školení ?

Otázky?





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